Archives of Environmental Contamination and Toxicology

Index Volume 12 1983

SPRINGER-VERLAG
NEW YORK HEIDELBERG BERLIN

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in the United States of America

© 1983 by Springer-Verlag New York Inc.

Author Index to Volume 12

Agarwal, R. A., 77, 483
Akiyama, K., 83
Alley, C. C., 603
Anderson C., 175
Ares, J. O., 589
Arul, V., 271

Babich, H., 421
Bache, C. A., 581
Bailey, E. M., 499
Baker, F. D., 221
Barr, J. F., 641
Baskett, T. S., 471
Basu, D. K., 383
Bauer, T. L., 135
Baumann, M., 509
Bay, S. M., 319
Beltramelli, G., 57
Bewley, R. J. F., 285, 421
Bird, D. M., 633
Boese, B. L., 655
Bowles, W. A., Jr., 355
Boyle, T. P., 535
Braun, H. E., 257, 265, 641
Bridger, M. A., 45
Brooke, L. T., 175
Brown, L. A., 195
Buhler, D. R., 15
Buikema, A. L., Jr., 399
Bunck, C., 529
Burnisoh, G. A., 203
Burton, D. T., 715
Bush, B., 221, 739

Call, D. J., 175
Callahan, P., 707
Carpenter, L. A., 169
Cavanaugh, K. P., 335
Chang, C. C., 721
Charlton, C. C., 203
Choe, S. Y., 183
Choi, E. J., 183
Christian, J. J., 383
Clark, C. R., 311
Connor, S., 739
Crosby, D. G., 121
Caldwell, R. S., 15

D'Auria, J. M., 1
Daye, P. G., 627
Demi, E., 509
Desalu, A. B. O., 293
DeVries, D. H., 189
Draper, W. M., 121
Dutcher, J. S., 311
Dwivedi, C., 151
Dymerski, P., 739

Easley, C. B., 71
Eastin, W. C., Jr., 31
Eaton, D. L., 169, 693
Eaton, J. G., 439
Everts, J. W., 91

Fair, P. A., 551
Fara, G. M., 57
Farooqui, M. Y. H., 489
Fiant, J. T., 661
Fingerman, S. W., 195
Fisher, S. W., 731
Follett, B. K., 335
Fox, G. A., 343, 633
Francis, B. M., 731
Frank, R., 211, 257, 265, 641
Franson, J. C., 529
Freeman, H. C., 627
Fyfe, R. W., 523

Garside, E. T., 627
Gaskin, D. E., 211
Gayoso, A. M., 589
Gile, J. D., 465
Gold, R. E., 71
Goldsmith, A. R., 335
Goodman, E. D., 99, 111
Graves, W. C., 715
Greim, H., 509
Gutenmann, W. H., 581

Hall, L. W., Jr., 715
Han, Y., 739
Heinz, G. H., 529
Hidaka, H., 621
Hilker, D., 739
Hill, R. H., Jr., 603
Hodgkins, D. A., 405
Hoffman, D. J., 31
Holcombe, G. W., 661
Holdrinet, M., 211
Holmes, W. N., 335
Honda, K., 543
Horii, S., 83
Hose, J. E., 319
Hotchkiss, J. H., 581
Huckins, J. N., 667
Hurlbut, J., 355

Ivie, G. W., 227, 499

Jarman, W. M., 523
Jenkins, J. J., 99, 111
Jensen, R., 673
Johnson, M., 127
Jones, J. R., 535

Kane, D. A., 447
Kashimoto, T., 615
Kent, R. J., 175
Key, J. J., 701
Kiff, L. F., 523
Klaas E. E., 235
Kaiser, T. E., 241
Kimbrough, R. D., 603
Klaverkamp, J. F., 405, 415
Kleiner, C. F., 679
Kleinschuster, S. J., 157
Knowlton, M. F., 35
Knudsen, J., 673
Knuth, M. L., 175
Koeman, J. H., 91
Kon, R., 99
Kurihara, N. H., 189

Laque, P. C., 633
Lamont, T., 529
Laughlin, J. M., 71
LeBlanc, G. A., 305
Lee, Hsing-Chung J., 603
Lew, T. S., 523
Lewis, M. A., 51
Lillie, W. R., 415
Lisk, D. J., 581
Livingston, R. J., 163
Lo, Fa-Chun, 221
Lumsden, H., 641
Lutz, A., 405, 415
Lynn, M., 195

McArthur, M. L. B., 343
McCarthy, J. F., 559
McClellan, R. O., 311
McIntosh, A. W., 25, 685
McLane, M. A. R., 235
Macdonald, W. A., 415
MacFarlane, R. B., 163
Mahendru, V. K., 77
Margrey, S. L., 715
Marian, M. P., 271
Martin, B. W., 499
Matsumura, F., 721
Mattson, V. R., 439
Meikle, R. W., 189
Mendenhall, V. M., 235
Metcalf, R. L., 489, 731
Metcalfe, J. L., 37
Michael, P R., 569
Millard, E. S., 203
Millette, J. R., 247
Mitchell, C. A., 241
Miyazaki, T., 83
Monk, J. G., 523
Moriarity, C., 175
Morrow, D. C., 257
Mueller, L. H., 439
Mumma, R. O., 581

Naman, T. M., 311
Needham, L. L., 603
Newman, M. C., 25, 685
Niethammer, K. R., 471
Nigg, H. N., 65, 477
Nishihara, Y., 517
Nomiyama, H., 143, 147
Nomiyama, K., 143, 147
Noren, K., 277

Oehler, D. D., 227
O'Leary, C. T., 31
Orti, D. L., 603
Oshida, P. S., 319
Ozretich, R. J., 655

Paigen, B., 383
Pandian, T. J., 271
Patel-Mandlik, K. J., 247
Patterson, D. G., 603
Pawlikowski, M. A., 383
Peakall, D. B., 343, 523
Penrose, W. R., 427
Peterson, R. H., 37
Peterson S. F., 679
Petty, J. D., 667
Philogene, B. J. R., 343
Phipps, G. L., 661
Popham, J. D., 1
Prasada Rao, P. V. V., 293
Pregliasco, F., 57
Price, J. F., 65
Puffer, H. W., 319

Randall, R. C., 655
Raupach, D. R., 581
Ray, S., 37
Reading, J. T., 399
Reynolds, L. M., 523
Richter, J. E., 679
Riley, R. G., 327, 455
Ripley, B. D., 257
Risebrough, R. W., 523
Román, B., 91
Rowley, M. H., 383
Rueckert, L., 739

Sangalang, G. B., 627
Schafer, E. W., Jr., 355
Schäffer, E., 509
Schroeder, W. P., 655
Seizinger, D. E., 311
Sharma, R. P., 157
Short, E. C., Jr., 195
Sidhu, K. S., 747
Siewicki, T. C., 299
Singh, D. K., 483
Slick, L. V., 551
Smith, C. E., 455
Smith, J. R., 655
Snow, J., 739
Sorensen, E. M. B., 135
Spann, J. W., 529
Springer, A. M., 523
Sridhar, M. K. C., 293
Stamper, J. H., 65, 477
Stanek, J., 265
Stinson, M. D., 693
Stotzky, G., 285, 421
Subramanian, B. R., 621
Surprenant, D. C., 305
Sydlowski, J. S., 299
Szczepanik-van Leeuwen, P. A., 427
Szymzynski, G. A., 577

Tanabe, S., 621
Tanner, D. K., 439
Tatsukawa, R., 543, 615, 621
Taulli, T. A., 569
Thaxton, J. P., 45
Therriault, G., 221
Trosko, J. E., 721
Tsushimoto, G., 721
Tucker, P. H., 633
Tumasonis, C. F., 221
Tupy, D. R., 71

Uthe, J. F., 627

van Frankenhuyzen, K., 91
Van Hassel, J. H., 701
Villa, A., 589

Walbridge, C. T., 661
Waldman, J. P., 581
Waliszewski, S. M., 577
Walker II, W., 523
Walton, B. J., 523
Watanabe, I., 615
Webb, E. S., 299
Weis, J. S., 707
Werner, A. F., 569
White, D. H., 241
Williams, M. A., 569
Williamson, K. J., 447
Wojeck, G. A., 65
Woodward, D. F., 327, 455

Yamagishi, T., 83
Yang, K. H., 183
Yoneyama, M., 157
Yotoriyama, M., 143, 147

Zabik, M. J., 99, 111
Zaroogian, G. E., 127
Zdeb, M., 221
Ziglio, G., 57

Subject Index to Volume 12

Abate®
  see temephos
Air
  trichloro- and tetrachloroethylene in, 57
  fluoride in, 589
Apples
  removal of captan from, 265
Asbestos
  in kidney cortex of rat, 247
Azinphosmethyl
  in orchard ecosystem, 99, 111

Benzo (a) pyrene
  effects of, on catfish, 195
  effects of, on sea urchin, 319
O-benzyl-*p*-chlorophenol
  environmental fate of, 569
Birds
  organochlorine pesticides in, 241
  toxicity of 998 chemicals to, 355
  effects of methyl parathion and toxaphene on, 471
  effects of PCBs and mirex on kestrels, 633
  chemicals in Common Loons, 641
Butylbenzyl phthalate
  toxicity of, to shiner perch, 655

Cadmium
  in shellfish, 15
  effects of, on salmon, 37
  effects of, on humans, 143, 147
  induced sterility in rats, 151
  effects of, on soil, 285
  effects of, on rat tissues, 293
  in oysters, 299
  effects of, on carbon-soil mineralization, 421
  in dolphins, 543
  in Black Sea bass, 551
  in crayfish, 693
Captan
  removal of, from apples, 265
Carbaryl
  effects of, on bullfrogs, 271
Carbon
  activated, collection efficiency of, 747
Cattle
  metabolism of 4-chlorophenyl methyl sulfide in, 227
Chicken
  effects of mercury on, 45
Chlordane
  in porpoises, 211
  mutagenic studies with hamster cells, 721
Chlorinated hydrocarbons
  toxicity of, in fathead minnows, 661
  toxicity of, to *Daphia*, 679
Chlorobenzilate
  Worker exposure to, 477

4-Chlorophenyl methyl sulfide
  metabolism of, in cattle and sheep, 227
Chlorpyrifos
  photodecomposition in water and inert surface, 189
Clay
  adsorption of PCBs on, 203
  effects of, on bioconcentration of Kelthane® in minnows, 439
Copper
  effects of, on *Daphnia magna*, 51
  in bay scallop, 127
  in crayfish, 693
Crabs
  effects of mercury on, 707
Crayfish
  lead, cadmium, mercury and copper in, 693

D*aphnia*
  effects of surfactants, copper, and phenol on, 51
  toxicity of acetone, dimethyl formamide and triethylene glycol to, 305
  effects of selenite-selenium on, 399
  polynuclear hydrocarbons in, 559
  toxicity of chlorinated hydrocarbons to, 679
Deltamethrin
  effects of, on forest habitat, 91
DDE
  fed to owls, 235
  in falcon eggs, 523
  in Antarctic fish, 62
DDT
  in Antarctic fish, 621
  in Common Loons, 641
  mutagenic studies with hamster cells, 721
2,4-Dichlorophenol
  effects of, on freshwater benthic zone, 427
2,4-D
  removal from contaminated fabrics, 71
  in rainbow trout, 169
  airborne losses from wheat field, 465
3′,4′-dichloropropionanilide
  effects of, in fish, 175
Dicofol
  bioconcentration in minnows, 439
Dieldrin
  fed to owls, 235
Diquat
  worker exposure to, 65
Dogs
  toxicity of 1-methylamino anthraquinone in, 499
Doves
  effects of organochlorine chemicals on, 343

Ducks
  effects of petroleum on, 335
  effects of temephos on mallard, 529

Eggs
  DDE and PCBs in falcon, 523
  Chemicals in Common Loons, 641

Firemaster®
  see polybromobiphenyls
Fish
  effects of cadmium on salmon, 37
  synthetic musks in, 83
  effects of pyrethroids on, 91
  selenium in, 135
  effects of acidified water on, 163
  2,4-D in, 169
  effects of 3′,4′-dichloropropionanilide in, 175
  effects of benzo(a)pyrene on, 195
  toxicity of selenium-mercury in, 405, 419
  Kelthane® in, 439
  effects of refined oil on, 455
  naphthalene and cadmium in, 551
  O-benzyl-*p*-chlorophenol in, 569
  polybrominated anisoles in, 615
  DDT and PCBs in Antarctic, 621
  chlorinated hydrocarbons in, 627
  toxicity of butylbenzyl phthalate to, 655
  toxicity of chlorinated hydrocarbons to, 661
  pentachlorophenol in, 667
  effects of ^{14}C-naphthalene in, 673
  heavy metals in, 701
  effects of chlorine and temperature on, 715
Fluoride
  input in marine environment, 589

Hexachlorobenzene
  in porpoises, 211
Houseflies
  effects of ethoxychlor analogs on, 489
Hydrazine fuels
  bacterial toxicity and metabolism of, 447
Hydrogen peroxide
  in natural waters, 121

Kelthane®
  see dicofol

Lead
  in freshwater gastropods, 25
  in birds, 31
  in crayfish and macrophytes, 535, 693
  in freshwater gastropods, 685
Lindane
  mutagenic studies with hamster cells, 721

Love Canal, New York
hazardous wastes evaluated with small mammals, 383

Mercury
effects of, on chickens, 45
effects of, on chick retinal cells, 157
selenium interactions in fish, 405, 419
in Common Loons, 641
in crayfish, 693
effects of, on Fiddler crabs, 707
Methyl parathion
effects of, on birds, 471
Mexacarbate
induced changes in snail enzymes, 77
Mice
response to neurotoxicants, 731
Milk
pesticides and PCBs in human, 277
mirex in human, 739
Mirex
effects of, on kestrel semen, 633
in human milk, 739
Molluscs
lead in, 25
Musk ketone
in biota and water, 83
Musk xylene
in biota and water, 83
Mussels
trace elements in, 1
Mutagens
in alcohol-gasoline blends exhaust extracts, 311
studies with DDT, lindane, and chlordane in hamster cells, 721

Oil
automotive waste, in birds, 31
contamination in salmonid stream, 327
effects of, on mallard ducks, 335
refined, effects on trout, 455
Owls
effects of feeding DDE and dieldrin to, 235
Oyster
cadmium in, 299

Paraquat
worker exposure to, 65
PCBs
see polychlorobiphenyls
Pentachlorophenol
in fathead minnows, 667
Permethrin
effects of, in forest habitat, 91
Pesticides
removal of, from containers, 257
in human milk, 277
effects of, on doves, 343
studies in the snail, 483
in human semen, 577
in marine sediments, 615
in Antarctic fish, 621
in Common Loons, 641
Pesticide workers
exposure to paraquat and diquat, 65
exposure to chlorobenzilate, 477
Phenol
effects of, on *Daphnia magna*, 51
Phorate
induced changes in snail enzymes, 77
Polybrominated anisoles
in marine biota and sediments, 615
Polybromobiphenyls
structure of minor components of Firemaster®, 603
Polychlorobiphenyls
in planktonic ecosystem, 203
in porpoises, 211
toxicity of, to oxidase systems, 221
in human milk, 277
effects of, on doves, 343
effects of, in rats, 509, 517
in falcon eggs, 523
in marine sediments, 615
in Antarctic fish, 621
effects of, on American kestrels, 633
Porpoises
PCBs in, 211
Propanil
see 3′,4′-dichloropropionanilide

Rabbit
toxicity of 1-methylamino anthraquinone in, 499
Rat
cadmium-induced sterility in, 151
cytotoxicity of TCDD in, 183
asbestos in, 247
effects of cadmium on enzymes in, 293
effects of PCBs in, 509, 517
response to neurotoxicants, 731

Sea urchin
teratogenic studies with, 319
Sediments
polybrominated anisoles in, 615
Selenium
in fish, 135
effects of, on *Daphnia*, 399
effects of, in fish, 405, 419
Semen
chlorinated pesticides in human, 577
effects of PCBs and mirex on kestrel, 633
Sewage sludge
survey of elements and other constituents in, 581
Sheep
metabolism of 4-chlorophenyl methyl sulfide in, 227
metabolism of 1-methylaminoanthraquinone in, 499
Shellfish
metals in, 15
synthetic musks in, 83
polybrominated anisoles in, 615
Snail
studies with anticholinesterase pesticides, 483
lead in, 685
Soil
effects of cadmium on, 285
heavy metals impact on ecologic processes in, 421
Surfactants
effects of, on *Daphnia magna*, 51

TCDD
see 2,3,7,8-tetrachlorodibenzo-*p*-dioxin
Temephos
effects of, on mallard ducks, 529
Teratogen
studies with sea urchin, 319
2,3,7,8-tetrachlorodibenzo-*p*-dioxin
cytotoxicity of, on rat hepatocytes, 183
Tetrachloroethylene
human exposure to, 57
toxicity of, to *Daphia*, 679
Toxaphene
effects of, on birds, 471
Toxicity, repellency, and hazard potential of 998 chemicals to birds, 355
Trichloroethylene
human exposure to, 57

Voles
use of, to assess hazardous waste sites, 383

Water
trichloro- and tetrachloroethylene in, 57
synthetic musk residues in, 83
hydrogen peroxide generation in, 121
selenium-laden effluent, effects on fish, 135
effects of acidified, on killifish, 163
degradation of chlorpyrifos in, 189
oil contamination in, 327
O-benzyl-*p*-chlorophenol in, 569
fluoride in, 589

Xenobiotics
ethoxychlor analogs, effect on houseflies, 489
in Antarctic fish, 621
in Common Loons, 641

Zinc
effects of, on carbon-soil mineralization, 421
in dolphins, 543